



Connected with Control4

About This Manual

Control4 develops smart home automation systems to control lighting, entertainment, security, energy, and other connected devices. The company's 2013 initial public offering was considered to be the first pure-play home automation IPO ever.

This manual is intended for guiding dealers of configuring and adding Akuvox smart intercoms to a Control4 solution. It will introduce how dealers can make video calls between Akuvox smart intercoms and Control4 T3 10" dock tablet, and manage the door lock connected to the Akuvox smart intercoms. Akuvox door phone can send video stream via MJPEG codec or H264 codec which dealers need to enable RTSP server in Akuvox door phone. Control4 will open the door via HTTP command which dealers need to enable open relay via HTTP feature in Akuvox door phone.

Please visit Akuvox forum or consult technical support for any new information or latest firmware.

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1. Overview

1.1. Before You Begin

Hardware:

Akuvox door station: Take R20 for an example, firmware 20.61.103.4

Akuvox indoor monitor: Take C313 for an example, firmware 113.0.4.56

Control4 Controller EA1: version 3.1.0

Control4 T3 10" dock tablet: version 3.1.0

Software:

Composer: version 3.1.0 Door station's driver version: Akuvox R20 Indoor monitor's driver version: Akuvox C313 Other driver: Door lock



1.2. Connection Diagram



Figure 1.2 Connection



1.3. Power on Akuvox devices

Akuvox smart intercoms can be powered on via POE or 12V/1A power

adapter.

Take R20 and C313 for examples:



Figure 1.3-2 General interface



Figure 1.3-3 C313's interface



Figure 1.3-4 General interface



2. Door Phone Configurations

2.1. Obtain IP Address

1. For devices with single button - E21/ R20/ R23/ R26:

While E21/ R20/ R23/ R26 power up normally, hold the call button for 5 seconds after the statue LED turns blue and it will enter IP announcement mode. In announcement mode, the IP address will be announced periodically. Press call button again to quit the announcement mode.

2. For devices with multiple numeric keyboard - R27/ R28:

While R27 /R28 power up normally, press ***2396#** to enter administrator interface and press **1** to enter system Information interface to check the IP address.

3. For devices with touch screen - R29:

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While R29 power up normally, in the dial interface, press **9999**, **Dial key**, **3888** and **OK** to enter the system setting interface. Go to **Info** interface to check the IP address.

Refer to the link to know more -

http://wiki.akuvox.com/doku.php?id=outdoor_station:feature_guides:ho w to obtain ip address of r2x

2.2. Connect/Login

Open a web browser, and access the corresponding IP address. Enter the default user name and password to login. The default administrator's user name and password are shown as below:

User Name: admin

Password: admin

Note: The recommended browser is Google Chrome.

Login		
	User Name	admin
	Password	
		Login

Figure 2.2 Access the device website



2.3. Preparations

1. Go to Upgrade - Basic interface to do web upgrade.

Upgrade: Choose .rom/ .zip (Only for R29) firmware from user's

PC, and then click Submit to update.

Refer to the link to know more -

http://wiki.akuvox.com/doku.php?id=outdoor_station:feature_guide

s:how_to_do_firmware_upgrade_in_r2x

2. Go to **Upgrade - Basic** interface to reset the door phone to factory settings.

Refer to the link to know more -

http://wiki.akuvox.com/doku.php?id=outdoor_station:feature_guide s:how_to_do_factory_reset_in_r2x

For R29, after resetting to factory settings, follow the hint and select **"Building"** theme for using.

ue-Dasic	
Firmware Version	20.31.202.186
Hardware Version	20.0.0.0.0.0.0
Upgrade	Choose File No file chosen
	Submit Cancel
Reset To Factory Setting	Submit
Reboot	Submit

Figure 2.3-1 Web upgrade



Figure 2.3-2 R29 interface which is with "Building" theme

3. Go to Intercom - RTSP interface to enable the RTSP stream in

door phone.

Refer to the link to know more -

http://wiki.akuvox.com/doku.php?id=outdoor_station:feature_guide

<u>s:3_kinds_of_video_stream_in_r2x</u>

ITSP		
	RTSP Basic	
RTSP Server Enabled		

Figure 2.3-3 RTSP Feature Enabled

4. Go to **Intercom - Relay** interface to enable the Unlock via HTTP command feature.

Refer to the link to know more -

http://wiki.akuvox.com/doku.php?id=outdoor_station:feature_guide

s:how_to_configure_http_unlock_in_r2x

2.4. Add Drivers in Composer

Run the **Composer** software, and go to **Items - Search** interface to find the door phone driver which users can enter **Akuvox** to search.

	Open Relay via HTTP	
Switch	Enabled •	
UserName	admin	
Password		

Figure 2.3-4 Unlock via HTTP Command Feature Enabled

Locations	Discovered	M	y Drive	rs	Search
akuvox					~
Local 🗹 (Category:	Online 🗌 Cerl	tified	Only	Clea	ar Search
- All Categories	-				~
Туре:					
- All Types					
Manufacturer:					
All Manufactur	ers				~
Control Method:	All Methods	~	Sort:	Relevan	ce 🗸
Akuvox C	313				
Akuvox	2018/12/19	17:20			Local
Akuvox R	20				

Figure 2.4-1 Find drivers

Akuvox Smart Intercom

Double click to add drivers (Depend on which model users use, here we take R20 for an example) to the project which users can see in the **System Design** interface and rename the driver to identify.

Note: If the drivers can not be found online, please contact Akuvox technical support for it.



Figure 2.4-2 Add drivers and rename

2.5. Bind Drivers to Devices

Go to **Connections - Network - IP Network Connections** interface to bind the driver to device via directly moving item from **Available Devices** interface.

Connections	
Control/AV	Network
IP Network	
ZigBee Network	
Z-Wave Network	

Figure 2.5-1 Find interface

P Network Connections						Available Devices
Identify Disconnect				Di	isconnect All IP	e-c4:control4_ea1
				View as:	⊖ Tree	SDDE ea1-000FFF9189F9
Device	Room	Туре	Address Type	Address	IP Address	SDDB glassedge 10p_touchscreen
₽ R20	Room	Akuvox:Doorstation:R20	UUID	Akuvox:Doorstation:R20-Akuvox_R20:0C1105081234	192.168.0.5	E-others
C313	Room	Akuvox:Intercom:C313	UUID	Akuvox:Intercom:C313-Akuvox_C313:0C11050783E0	192.168.0.6	SDDF Akuvox C313:0C11050783E0
EA-1	Room	c4:control4_ea1	UUID	c4:control4_ea1-ea1-000FFF9189F9	192.168.0.4	SDDP Akuvox R20:0C1105081234
T3 10" Tabletop Touch Screen	Room	c4:uidevice_glassedge10p	UUID	c4:uidevice_glassedge10p_touchscreen-glassedge10p-000fff826479	192.168.0.3	

Figure 2.5-2 Bind drivers to devices



2.6. SIP and HTTP Unlock Settings

Go to **System Design** interface to select the door phone first. Go to **Properties** interface to configure SIP account, SIP password, enable the Relay via HTTP option and configure its username and password. Every row needs to be confirmed by clicking on the **Set** button.

Back to door phone's website, and go to **Status - Basic - Account Information** interface to check whether the SIP account is registered or not.

Note: If the SIP account is not registered, users can

1. Check whether the Communication agents is added or not;

2. If added, reboot the controller to try to active the SIP server again.



Figure 2.6 SIP and HTTP unlock settings



2.7. Lock Manipulation

Go to **Items - My Drivers** interface to find the door lock driver. Double click to add drivers to the project and rename them.

Go to **Connections - Control/AV** interface and select door lock. Go to **Control&Audio Video Connections** interface bind the driver to device's relay port via directly moving item to **Relay Output Devices** interface.

Go to **Programming** interface, select door phone and select door phone event to be **UI Button One/Two Pressed**.Go to **Actions** interface, select door lock, select the lock actions to

be **Toggle the room->Lock** and move the lock action to **Script** interface.

Go to System Design interface to select the door phone -



Figure 2.7-1 Lock manipulation







Intercom.

Go to **Properties - Custom Buttons** interface to tick to enable two UI buttons which can be used as the trigger for sending HTTP command to door phone to unlock doors and rename them.



Figure 2.7-3 Lock manipulation



Figure 2.7-4 Lock manipulation



2.8. Communication Settings

1. Call group

Go to **Agents** interface and add Communication agent first. The default **All** call group is only with Control4 devices, like T3.

Users can add new call group, like Call_to_C313_and_T3, and add C313 and T3 to it.

Add... Remove Agents Advanced Lighting Backup Email Notification Identity Push Notification Scheduler Variables Available Agents × OK Agent Nam 4Store Cancel Access Guest Services Histor Light Prope Macros Media Scene Navigation Screen Save Timer **UI** Configuration Wakeup Wakeup/Goodnigh

Figure 2.8-1 Communication settings

Go to **System Design** interface to select door phone. Go to **Properties** interface to select which group the door phone should call.

gents			Local Devices	External De	vices SIP Servers					
jents	Add	Remove								
vanced Lighting ckup			ļ							
nmunication			Available	Devices	Location			Devices in Group	Location	
all Notification ntity th Notification neduler			T3 10" T	abletop Touc	Room		Add >>	C313	Room	
iables										
ercom Groups										
	New Renar	ne Delete					OK			
oups							UK			
						_	Cancel			
all_to_C313_and_T3										
								Manual Association	Timore	
			Apply	Changes	Move Down		Move Up	(10 seconds)	min) 4	0
			ID	Name		Room	State			
			13	Ak-Intercom		Room	0: Not Ready	10		
			16	C313		Room	0: Not Ready	1		
			10			1 to oth				

Figure 2.8-2 Communication settings

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2. Call volume settings from composer

Go to **System Design** interface to select the door phone - **Intercom**, and then users can configure call volume settings.

Note: The call volume can not be muted from composer.

After each settings is done, upload this project to Controller (File/ Refresh Navigators).



R20A

2X.0.0.1

123456

0C:11:05:08:12:34

20.0.0.0.0.0.0.0

20.31.202.186

R20

Advanced Properties

Version

SIP Useman

SIP Password

Web Usem

Web Pas

Mac Addres

Software

Properties Actions Documentation Lua

~ ~ ~ 09

E-C Akuvox

Main

- Ak-Cam - C313

EA-1

Digital Media

- Tunein - My Music My Movies

Gate Lock



Figure 2.8-4 Communication settings



Properties List View

Set Cancel



3. Indoor Monitor Configuration

3.1. Obtain IP Address

When booting indoor monitor first time, users need to choose a suitable way to connect to network **wireless or wire**, and then click **Skip**.

Users can go to More - Status - Network to check IP address.



Figure 3.1-1 Obtain IP address



Figure 3.1-2 Obtain IP address



Figure 3.1-3 Obtain IP address



3.2. Connect/Login

Open a web browser, and access the corresponding IP address. Enter the default user name and password to login. The default administrator's user name and password are shown as below:

User Name: admin

Password: admin

Note: The recommended browser is Google Chrome.

_ogin		
	User Name	admin
	Password	Login

Figure 2.2 Access the device website

3.3. Preparations

Go to Upgrade - Basic interface to do web upgrade.
 Upgrade: Choose .rom/ .zip (For C315, C317, IT82, IT83)
 firmware from user's PC, and then click Submit to update.
 Refer to the link to know more http://wiki.akuvox.com/doku.php?id=indoor_monitor:feature_guides:
 how to do firmware upgrade in c31x or it8x

Upgrade-Basic	
Firmware Version Hardware Version	113.0.4.51
Upgrade	Choose File No file chosen Submit Cancel
Reset To Factory Setting	Submit
Reset Config To Factory Setting	Submit
Reboot	Submit

Figure 3.3 Web upgrade



2. Go to Upgrade - Basic interface to reset the indoor monitor to factory settings.
Refer to the link to know more - http://wiki.akuvox.com/doku.php?id=indoor_monitor:feature_guides:
how to do factory reset

3.4. Add Drivers in Composer

Run the Composer software, and go to **Items - Search** interface to find the indoor monitor driver (Depend on which model users use, here we take C313 for an example) which users can enter **Akuvox** to search.

Double click to add drivers to the project which users can see in the **System Design** interface and rename the driver to identify. **Note:** If the drivers can not be found online, please contact Akuvox technical support for it.



Figure 3.4-1 Find drivers



Figure 3.4-2 Add drivers and rename



3.5. Bind Drivers to Devices

Go to **Connections - Network - IP Network Connections** interface to bind the driver to device via directly moving item from **Available Devices** interface.

Connections	
Control/AV	Network
IP Network	
ZigBee Network	
Z-Wave Network	

Figure 3.5-1 Find interface

IP Network Connections					Available Devices	
Identify Disconnect					Disconnect All IP	-c4:control4_ea1
				View as	s: () Tree () List	SODP ea1-000FFF9189F9
Device	Room	Туре	Address Type	Address	IP Address	SODE classedge 10p_touchscreen
P R20	Room	Akuvox:Doorstation:R20	UUID	Akuvox:Doorstation:R20-Akuvox_R20:0C1105081234	192.168.0.5	
C313	Room	Akuvox:Intercom:C313	UUID	Akuvox:Intercom:C313-Akuvox_C313:0C11050783E0	192.168.0.6	SDDE Akuvox_C313:0C11050783E0
EA-1	Room	c4:control4_ea1	UUID	c4:control4_ea1-ea1-000FFF9189F9	192.168.0.4	SDDP Akuvox R20:0C1105081234
T3 10" Tabletop Touch Screen	Room	c4:uidevice_glassedge10p	UUID	c4:uidevice_glassedge10p_touchscreen-glassedge10p-000fff82647	79 192.168.0.3	

Figure 3.5-2 Bind drivers to devices



3.6. SIP Settings

Go to **System Design** interface to select the indoor monitor first. Go to **Properties** interface to configure SIP account and SIP password. Every value need to be confirm by a **Set** button.

Back to indoor monitor's website, and go to **Status - Basic -Account Information** interface to check whether the SIP account is registered or not.

Note: If the SIP account is not registered, users can

1. Check whether the **Communication** agents is added or not;

2. If added, reboot the controller to try to active the SIP server again.



Figure 3.6 SIP and HTTP unlock settings



3.7. Communication Settings

1. Call volume settings from composer

Go to **System Design** interface to select the door phone - **Intercom**, and then users can configure call volume settings.

Note: The call volume can not be muted from composer.

After each settings is done, upload this project to Controller (File/ Refresh Navigators).

System Design	Properties								
System	Properties								
×ו 69	Appearance	Audio Control		a contration of the	Sip Information				
Akuvox	Exclude from Navigator	Ringer	Speaker	Microphone	IP Address:	192.168.0.4			
House	High Quality Enabled	1.5	1 -	1.1	User Name:	C313			
ial Second Anna Second	Dial Pad UI Enabled				Display Name:	Room - C313			
R20	Behavior				Transport	UDP			
- Ak Gamera	Play Door Chime		-		Multicast IP:	224.0.0.1			
Cita Cita Cita Cita Cita Cita Cita C	Do Not Distarb Auto Answer Carlo Autor Made Carlo Autor Aut	50 ÷	50 🐳	50 © 50 ©	Custom Buttons Use Custom Button 1 Button Label Button Ore Use Custom Button 2 Button Label Button Two skt 11 Proxy kt 14				
	Version	8X.0	8X.0.0.1						
	SIP Username	C313	C313						
	SIP Password		123456						
	Web Username	b Username			admin				
	Web Password		admir	n					
	Mac Address	Mac Address			0C:11:05:07:83:E0				
	Hardware Version			113.0.0.0.0.0.0					
	Software Version			113.0.4.51					

Figure 3.7 Communication settings



Appendix: Limitation in Akuvox Drivers

1. Supported features from Composer:

SIP settings, unlock via HTTP command settings, video preview settings, Call group (The default All call group is only with Control4 devices, like T3), Ringer, Speaker, Mic sliders (The call volume can not be muted from composer), Custom Buttons, Alternate Camera

2. Unsupported features from Composer:

Play Door Chime, Do Not Disturb, Auto Answer, Send Video, Stop Video, Pause/Resume Call, Monitor Mode, Current Session, API Calls, set show main/mirror video

Contact us

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We highly appreciate your feedback about our products.

